**Expansion of Kalpakkam nuclear power reactor**

4510. SHRI THANGA TAML SELVEN: Will the PRIME MINISTER be pleased to state:

(a) whether it is proposed to expand the nuclear power reactor at Kalpakkam in Tamil Nadu with a view to increasing its production potential;

(b) if so, the details thereof; and

(c) if not, the reasons therefor?

THE MINISTER OF STATE IN THE DEPARTMENT OF ATOMIC ENERGY (SHRIMATI VASUNDHARA RAJE): (a) and (b) No, Sir. However, the en-masse coolant channel replacement and upgradation work presently being undertaken for Madras Atomic Power Station-2 (with present capacity of 170 MWe) since January, 2002 is with a view to refurbishing this unit for its extended life of operation, with enhanced safety, and also to restore its power level to about 220 MWe when the unit comes back on line in a period of about 2 years. Similar work is also planned to be taken up in Madras Atomic Power Station-1. Separately a Prototype Fast Breeder Reactor of 500 MWe is being planned at Kalpakkam.

(c) Not applicable in view of (a) and (b) above.

**Atomic Power**

4511. SHRI LAJPAT RAI: Will the PRIME MINISTER be pleased to state:

(a) the atomic power generated in April 1997 by the atomic power plants in the country;

(b) the atomic power being generated at present with the generating capacity added during the last five years;

(c) the plans to increase this power generation during next five years; and

(d) the other details in this regard?

THE MINISTER OF STATE IN THE DEPARTMENT OF ATOMIC ENERGY (SHRIMATI VASUNDHARA RAJE): (a) The nuclear power generation capacity in the year 1997 was 1840 MWe. The total electricity production from nuclear power in the financial year 1997-98 was 10098 Million Units.

(b) The present nuclear power generation capacity in the country is 2720 MWe. A capacity of 880 MWe was added during the year 2000 by the completion of 4 units of 220 MWe each. In the financial year 2001-02, the electricity generation from nuclear power reactors has been 19,481 Million Units.

(c) In the next five years (upto March 2007, by the end of the X Plan), the unclear power capacity is planned to be increased from 2720 MWe to 4020 MWe.

(d) This capacity addition of 1300 MWe is expected to be achieved by the commencement of commercial operations of TAPP-3 & 4 (2x500 MWe being uprated to 2x 540 MWe) and Kaiga-3 & 4 (220 MWe), that is one unit out of the twin units Kaiga-3 & 4 (2x220 MWe). Unit 4 of Kaiga, Kundankulam-1 & 2 (2x1000 MWe) and RAPP-5 & 6 (2x220 MWe) are also expected to commence commercial operations progressively during the year 2007 and end of 2008 so as to reach a total nuclear power capacity of 6680 MWe by end of the year 2008. These units are presently under construction.

**Power generated by atomic power stations**

4512. SHRI RAMA MUNI REDDY SIRIGIREDDY: Will the PRIME MINISTER be pleased to state:

(a) the power generated through the atomic power stations during the last five years, year-wise;

(b) whether Government have identified global markets to export nuclear power reactors or components; and

(c) if so, the details thereof?

THE MINISTER OF STATE IN THE DEPARTMENT OF ATOMIC ENERGY (SHRIMATI VASUNDHARA RAJE): (a) The power generated